

Release notes for ENDF/B Development decay sublibrary

**ENDF**  
B-VII.**dev**

April 19, 2017

## FAILURE SUMMARY

No FAILURES found!

## ERROR SUMMARY

**checkr** A variable is outside the allowed ENDF range: `dec-003_Li_008.endf`, `dec-003_Li_009.endf`, `dec-039_Y_098m1.endf`,

**checkr** Generic error message: `dec-039_Y_098m1.endf`,

**checkr** Missing a section in directory so your directory is messed up. This error will break everything  
else: `dec-003_Li_008.endf`, `dec-003_Li_009.endf`,

**checkr** STYPE out of order: `dec-090_Th_230.endf`, `dec-090_Th_232.endf`, `dec-091_Pa_231.endf`, `dec-092_U_232.endf`,  
`dec-092_U_234.endf`, `dec-092_U_235.endf`, `dec-092_U_236.endf`, `dec-092_U_238.endf`, `dec-094_Pu_236.endf`, `dec-094_Pu_238.endf`,  
`dec-094_Pu_239.endf`, `dec-094_Pu_240.endf`, `dec-094_Pu_244.endf`, `dec-095_Am_241.endf`, `dec-095_Am_243.endf`, `dec-096_Cm_242.endf`,  
`dec-096_Cm_244.endf`, `dec-096_Cm_246.endf`, `dec-096_Cm_248.endf`, `dec-098_Cf_249.endf`, `dec-098_Cf_250.endf`,

**fizcon** A LIST record is messed up, I don't know which one: `dec-055-Cs_141.endf`,

**fizcon** A discrete gamma energy is not energetically possible for the given Q value: `dec-003_Li_008.endf`,  
`dec-007_N_016.endf`, `dec-015_P_028.endf`, `dec-019_K_035.endf`, `dec-019_K_036.endf`, `dec-039_Y_099.endf`, `dec-050_Sn_113.endf`,  
`dec-068_Er_149m1.endf`, `dec-070_Yb_164.endf`, `dec-072_Hf_174.endf`, `dec-079_Au_186.endf`,

**fizcon** A unknown parameter is outside of legal limits: `dec-098_Cf_252.endf`,

**fizcon** All probability distributions should be normalized to 1, this one isn't.: `dec-028_Ni_072.endf`,  
`dec-029_Cu_077.endf`, `dec-030_Zn_074.endf`, `dec-030_Zn_079.endf`, `dec-030_Zn_081.endf`, `dec-031_Ga_079.endf`, `dec-031_Ga_080.endf`,  
`dec-031_Ga_081.endf`, `dec-033_As_086.endf`, `dec-033_As_087.endf`, `dec-034_Se_087.endf`, `dec-034_Se_089.endf`, `dec-034_Se_091.endf`,  
`dec-035_Br_087.endf`, `dec-035_Br_088.endf`, `dec-035_Br_089.endf`, `dec-035_Br_090.endf`, `dec-035_Br_092.endf`, `dec-036_Kr_095.endf`,  
`dec-036_Kr_096.endf`, `dec-037_Rb_091.endf`, `dec-037_Rb_092.endf`, `dec-037_Rb_094.endf`, `dec-037_Rb_095.endf`, `dec-037_Rb_097.endf`,  
`dec-037_Rb_099.endf`, `dec-037_Rb_100.endf`, `dec-038_Sr_097.endf`, `dec-038_Sr_098.endf`, `dec-038_Sr_099.endf`, `dec-038_Sr_105.endf`,  
`dec-039_Y_105.endf`, `dec-039_Y_108.endf`, `dec-040_Zr_098.endf`, `dec-040_Zr_104.endf`, `dec-040_Zr_105.endf`, `dec-040_Zr_108.endf`,  
`dec-041_Nb_104.endf`, `dec-041_Nb_107.endf`, `dec-041_Nb_109.endf`, `dec-042_Mo_109.endf`, `dec-042_Mo_113.endf`, `dec-042_Mo_114.endf`,  
`dec-043_Tc_109.endf`, `dec-043_Tc_110.endf`, `dec-043_Tc_111.endf`, `dec-043_Tc_113.endf`, `dec-043_Tc_114.endf`, `dec-043_Tc_116.endf`,  
`dec-044_Ru_111.endf`, `dec-044_Ru_115.endf`, `dec-044_Ru_119.endf`, `dec-044_Ru_120.endf`, `dec-045_Rh_116.endf`, `dec-045_Rh_117.endf`,  
`dec-045_Rh_119.endf`, `dec-045_Rh_120.endf`, `dec-046_Pd_115.endf`, `dec-046_Pd_117.endf`, `dec-047_Ag_120.endf`, `dec-047_Ag_122.endf`,  
`dec-047_Ag_124.endf`, `dec-048_Cd_124.endf`, `dec-049_In_129.endf`, `dec-049_In_131m2.endf`, `dec-050_Sn_131.endf`, `dec-050_Sn_133.endf`,  
`dec-050_Sn_134.endf`, `dec-050_Sn_135.endf`, `dec-051_Sb_135.endf`, `dec-052_Te_136.endf`, `dec-052_Te_137.endf`, `dec-053_I_138.endf`,  
`dec-053_I_139.endf`, `dec-053_I_140.endf`, `dec-053_I_141.endf`, `dec-053_I_142.endf`, `dec-053_I_143.endf`, `dec-053_I_145.endf`,  
`dec-054_Xe_141.endf`, `dec-054_Xe_142.endf`, `dec-055-Cs_141.endf`, `dec-055-Cs_142.endf`, `dec-055-Cs_145.endf`, `dec-055-Cs_147.endf`,  
`dec-055-Cs_150.endf`, `dec-056_Ba_144.endf`, `dec-056_Ba_147.endf`, `dec-056_Ba_149.endf`, `dec-056_Ba_150.endf`, `dec-056_Ba_151.endf`,  
`dec-056_Ba_153.endf`, `dec-057_La_147.endf`, `dec-057_La_148.endf`, `dec-057_La_152.endf`, `dec-058_Ce_148.endf`, `dec-058_Ce_149.endf`,  
`dec-058_Ce_150.endf`, `dec-058_Ce_156.endf`, `dec-059_Pr_156.endf`, `dec-059_Pr_157.endf`, `dec-059_Pr_158.endf`, `dec-060_Nd_155.endf`,  
`dec-060_Nd_156.endf`, `dec-060_Nd_160.endf`, `dec-060_Nd_161.endf`, `dec-061_Pm_155.endf`, `dec-062_Sm_158.endf`, `dec-062_Sm_160.endf`,  
`dec-062_Sm_161.endf`, `dec-062_Sm_162.endf`, `dec-063_Eu_161.endf`, `dec-063_Eu_162.endf`, `dec-063_Eu_163.endf`, `dec-063_Eu_164.endf`,  
`dec-063_Eu_165.endf`, `dec-064_Gd_163.endf`, `dec-064_Gd_164.endf`, `dec-064_Gd_165.endf`,

**fizcon** At least one gamma ray needed for given source mode: dec-062\_Sm\_147.endf, dec-062\_Sm\_148.endf, dec-064\_Gd\_148.endf, dec-064\_Gd\_150.endf, dec-072\_Hf\_156.endf, dec-073-Ta\_157m1.endf, dec-074\_W\_158.endf, dec-077\_Ir\_166.endf, dec-078\_Pt\_167.endf, dec-078\_Pt\_190.endf, dec-080\_Hg\_173.endf, dec-081\_Tl\_179.endf, dec-083\_Bi\_188.endf, dec-084\_Po\_190.endf, dec-084\_Po\_191m1.endf, dec-084\_Po\_192.endf, dec-084\_Po\_212.endf, dec-085\_At\_212.endf, dec-085\_At\_213.endf, dec-085\_At\_214.endf, dec-085\_At\_219.endf, dec-086\_Rn\_197.endf, dec-086\_Rn\_198.endf, dec-086\_Rn\_212.endf, dec-086\_Rn\_213.endf, dec-086\_Rn\_215.endf, dec-086\_Rn\_217.endf, dec-087\_Fr\_201.endf, dec-087\_Fr\_214.endf, dec-087\_Fr\_214m1.endf, dec-087\_Fr\_215.endf, dec-087\_Fr\_218m1.endf, dec-088\_Ra\_215.endf, dec-088\_Ra\_217.endf, dec-089\_Ac\_208.endf, dec-089\_Ac\_209.endf, dec-089\_Ac\_215.endf, dec-089\_Ac\_216.endf, dec-089\_Ac\_217.endf, dec-089\_Ac\_218.endf, dec-089\_Ac\_219.endf, dec-089\_Ac\_221.endf, dec-089\_Ac\_222.endf, dec-090\_Th\_210.endf, dec-090\_Th\_217.endf, dec-090\_Th\_218.endf, dec-090\_Th\_222.endf, dec-091\_Pa\_217.endf, dec-091\_Pa\_218.endf, dec-091\_Pa\_223.endf, dec-091\_Pa\_225.endf, dec-092\_U\_219.endf, dec-093\_Np\_226.endf, dec-102\_No\_257.endf,

**fizcon** Bad value of halflife ( $T_{1/2}$ ): dec-020\_Ca\_048.endf, dec-040\_Zr\_096.endf, dec-042\_Mo\_100.endf, dec-048\_Cd\_116.endf, dec-052\_Te\_128.endf, dec-060\_Nd\_150.endf, dec-074\_W\_180.endf, dec-074\_W\_186.endf, dec-082\_Pb\_204.endf,

**fizcon** Beta spectrum integral too small: dec-002\_He\_008.endf, dec-005\_B\_012.endf, dec-007\_N\_012.endf, dec-019\_K\_048.endf, dec-023\_V\_047.endf, dec-029\_Cu\_068.endf, dec-029\_Cu\_072.endf, dec-032\_Ge\_069.endf, dec-033\_As\_082.endf, dec-035\_Br\_077.endf, dec-035\_Br\_080.endf, dec-038\_Sr\_080.endf, dec-038\_Sr\_085m1.endf, dec-038\_Sr\_098.endf, dec-039\_Y\_085m1.endf, dec-041\_Nb\_100.endf, dec-044\_Ru\_094.endf, dec-045\_Rh\_097m1.endf, dec-045\_Rh\_100.endf, dec-045\_Rh\_104.endf, dec-046\_Pd\_099.endf, dec-047\_Ag\_114.endf, dec-047\_Ag\_120m1.endf, dec-048\_Cd\_102.endf, dec-048\_Cd\_107.endf, dec-049\_In\_116.endf, dec-049\_In\_128m1.endf, dec-050\_Sn\_106.endf, dec-050\_Sn\_108.endf, dec-051\_Sb\_118m1.endf, dec-052\_Te\_117.endf, dec-052\_Te\_119m1.endf, dec-053\_I\_128.endf, dec-055\_Cs\_140.endf, dec-056\_Ba\_124.endf, dec-057\_La\_135.endf, dec-058\_Ce\_137.endf, dec-059\_Pr\_128.endf, dec-059\_Pr\_150.endf, dec-060\_Nd\_139m1.endf, dec-064\_Gd\_144.endf, dec-065\_Tb\_142.endf, dec-065\_Tb\_147m1.endf, dec-065\_Tb\_148m1.endf, dec-065\_Tb\_151m1.endf, dec-066\_Dy\_150.endf, dec-067\_Ho\_157.endf, dec-067\_Ho\_159.endf, dec-067\_Ho\_170m1.endf, dec-068\_Er\_163.endf, dec-069\_Tm\_164.endf, dec-070\_Yb\_162.endf, dec-070\_Yb\_165.endf, dec-070\_Yb\_167.endf, dec-075\_Re\_180.endf, dec-078\_Pt\_184.endf, dec-080\_Hg\_190.endf, dec-082\_Pb\_194.endf, dec-082\_Pb\_196.endf, dec-093\_Np\_232.endf,

**fizcon** Energies released in decay not adding up!: dec-001\_H\_001.endf, dec-001\_H\_002.endf, dec-002\_He\_003.endf, dec-002\_He\_004.endf, dec-002\_He\_006.endf, dec-002\_He\_008.endf, dec-003\_Li\_006.endf, dec-003\_Li\_007.endf, dec-003\_Li\_008.endf, dec-003\_Li\_009.endf, dec-004\_Be\_009.endf, dec-004\_Be\_010.endf, dec-004\_Be\_012.endf, dec-005\_B\_010.endf, dec-005\_B\_011.endf, dec-005\_B\_012.endf, dec-006\_C\_010.endf, dec-006\_C\_012.endf, dec-006\_C\_013.endf, dec-007\_N\_012.endf, dec-007\_N\_013.endf, dec-007\_N\_014.endf, dec-007\_N\_015.endf, dec-007\_N\_016.endf, dec-007\_N\_017.endf, dec-008\_O\_014.endf, dec-008\_O\_015.endf, dec-008\_O\_016.endf, dec-008\_O\_017.endf, dec-008\_O\_018.endf, dec-008\_O\_020.endf, dec-009\_F\_019.endf, dec-009\_F\_020.endf, dec-009\_F\_022.endf, dec-010\_Ne\_019.endf, dec-010\_Ne\_020.endf, dec-010\_Ne\_021.endf, dec-010\_Ne\_022.endf, dec-010\_Ne\_023.endf, dec-010\_Ne\_026.endf, dec-011\_Na\_021.endf, dec-011\_Na\_023.endf, dec-011\_Na\_024.endf, dec-011\_Na\_025.endf, dec-011\_Na\_026.endf, dec-012\_Mg\_024.endf, dec-012\_Mg\_025.endf, dec-012\_Mg\_026.endf, dec-013\_Al\_025.endf, dec-013\_Al\_026m1.endf, dec-013\_Al\_027.endf, dec-013\_Al\_028.endf, dec-014\_Si\_027.endf, dec-014\_Si\_028.endf, dec-014\_Si\_029.endf, dec-014\_Si\_030.endf, dec-014\_Si\_032.endf, dec-015\_P\_028.endf, dec-015\_P\_029.endf, dec-015\_P\_030.endf, dec-015\_P\_031.endf, dec-015\_P\_032.endf, dec-015\_P\_035.endf, dec-016\_S\_031.endf, dec-016\_S\_032.endf, dec-016\_S\_033.endf, dec-016\_S\_034.endf, dec-016\_S\_036.endf, dec-017\_Cl\_033.endf, dec-017\_Cl\_034.endf, dec-017\_Cl\_035.endf, dec-017\_Cl\_036.endf, dec-017\_Cl\_037.endf, dec-018\_Ar\_035.endf, dec-018\_Ar\_036.endf, dec-018\_Ar\_037.endf, dec-018\_Ar\_038.endf, dec-018\_Ar\_040.endf, dec-018\_Ar\_041.endf, dec-019\_K\_035.endf, dec-019\_K\_036.endf, dec-019\_K\_038.endf, dec-019\_K\_038m1.endf, dec-019\_K\_039.endf, dec-019\_K\_040.endf, dec-019\_K\_041.endf, dec-019\_K\_042.endf, dec-020\_Ca\_039.endf, dec-020\_Ca\_040.endf, dec-020\_Ca\_042.endf, dec-020\_Ca\_043.endf, dec-020\_Ca\_044.endf, dec-020\_Ca\_049.endf, dec-021\_Sc\_041.endf, dec-021\_Sc\_042.endf, dec-021\_Sc\_045.endf, dec-021\_Sc\_049.endf, dec-021\_Sc\_050m1.endf, dec-022\_Ti\_046.endf, dec-022\_Ti\_047.endf, dec-022\_Ti\_048.endf, dec-022\_Ti\_049.endf, dec-022\_Ti\_050.endf, dec-023\_V\_046.endf, dec-023\_V\_048.endf, dec-023\_V\_051.endf, dec-023\_V\_052.endf, dec-024\_Cr\_046.endf, dec-024\_Cr\_050.endf, dec-024\_Cr\_052.endf, dec-024\_Cr\_053.endf, dec-024\_Cr\_054.endf, dec-024\_Cr\_055.endf, dec-024\_Cr\_056.endf, dec-025\_Mn\_050.endf, dec-025\_Mn\_051.endf, dec-025\_Mn\_055.endf, dec-025\_Mn\_068.endf, dec-026\_Fe\_054.endf, dec-026\_Fe\_056.endf, dec-026\_Fe\_057.endf, dec-026\_Fe\_058.endf, dec-027\_Co\_054.endf,

dec-027\_Co\_059.endf, dec-027\_Co\_072.endf, dec-027\_Co\_073.endf, dec-027\_Co\_074.endf, dec-027\_Co\_075.endf, dec-028\_Ni\_058.endf, dec-028\_Ni\_060.endf, dec-028\_Ni\_061.endf, dec-028\_Ni\_062.endf, dec-028\_Ni\_063.endf, dec-028\_Ni\_064.endf, dec-028\_Ni\_072.endf, dec-028\_Ni\_073.endf, dec-028\_Ni\_074.endf, dec-028\_Ni\_075.endf, dec-028\_Ni\_076.endf, dec-028\_Ni\_077.endf, dec-028\_Ni\_078.endf, dec-029\_Cu\_062.endf, dec-029\_Cu\_063.endf, dec-029\_Cu\_065.endf, dec-029\_Cu\_066.endf, dec-029\_Cu\_073.endf, dec-029\_Cu\_074.endf, dec-029\_Cu\_075.endf, dec-029\_Cu\_076.endf, dec-029\_Cu\_077.endf, dec-029\_Cu\_078.endf, dec-029\_Cu\_079.endf, dec-029\_Cu\_080.endf, dec-029\_Cu\_081.endf, dec-030\_Zn\_064.endf, dec-030\_Zn\_065.endf, dec-030\_Zn\_066.endf, dec-030\_Zn\_067.endf, dec-030\_Zn\_068.endf, dec-030\_Zn\_069.endf, dec-030\_Zn\_074.endf, dec-030\_Zn\_079.endf, dec-030\_Zn\_080.endf, dec-030\_Zn\_081.endf, dec-030\_Zn\_082.endf, dec-030\_Zn\_083.endf, dec-031\_Ga\_069.endf, dec-031\_Ga\_070.endf, dec-031\_Ga\_071.endf, dec-031\_Ga\_077.endf, dec-031\_Ga\_079.endf, dec-031\_Ga\_080.endf, dec-031\_Ga\_081.endf, dec-031\_Ga\_082.endf, dec-031\_Ga\_083.endf, dec-031\_Ga\_084.endf, dec-031\_Ga\_085.endf, dec-031\_Ga\_086.endf, dec-032\_Ge\_070.endf, dec-032\_Ge\_072.endf, dec-032\_Ge\_073.endf, dec-032\_Ge\_074.endf, dec-032\_Ge\_076.endf, dec-032\_Ge\_084.endf, dec-032\_Ge\_085.endf, dec-032\_Ge\_086.endf, dec-032\_Ge\_087.endf, dec-032\_Ge\_088.endf, dec-032\_Ge\_089.endf, dec-033\_As\_075.endf, dec-033\_As\_079.endf, dec-033\_As\_082.endf, dec-033\_As\_083.endf, dec-033\_As\_084.endf, dec-033\_As\_085.endf, dec-033\_As\_086.endf, dec-033\_As\_087.endf, dec-033\_As\_088.endf, dec-033\_As\_089.endf, dec-033\_As\_090.endf, dec-033\_As\_091.endf, dec-033\_As\_092.endf, dec-034\_Se\_074.endf, dec-034\_Se\_076.endf, dec-034\_Se\_077.endf, dec-034\_Se\_078.endf, dec-034\_Se\_079.endf, dec-034\_Se\_081.endf, dec-034\_Se\_082.endf, dec-034\_Se\_087.endf, dec-034\_Se\_088.endf, dec-034\_Se\_089.endf, dec-034\_Se\_090.endf, dec-034\_Se\_091.endf, dec-034\_Se\_092.endf, dec-034\_Se\_093.endf, dec-034\_Se\_094.endf, dec-035\_Br\_079.endf, dec-035\_Br\_081.endf, dec-035\_Br\_084m1.endf, dec-035\_Br\_087.endf, dec-035\_Br\_088.endf, dec-035\_Br\_089.endf, dec-035\_Br\_090.endf, dec-035\_Br\_091.endf, dec-035\_Br\_092.endf, dec-035\_Br\_093.endf, dec-035\_Br\_094.endf, dec-035\_Br\_095.endf, dec-035\_Br\_096.endf, dec-035\_Br\_097.endf, dec-036\_Kr\_078.endf, dec-036\_Kr\_080.endf, dec-036\_Kr\_082.endf, dec-036\_Kr\_083.endf, dec-036\_Kr\_084.endf, dec-036\_Kr\_086.endf, dec-036\_Kr\_092.endf, dec-036\_Kr\_093.endf, dec-036\_Kr\_094.endf, dec-036\_Kr\_095.endf, dec-036\_Kr\_096.endf, dec-036\_Kr\_097.endf, dec-036\_Kr\_098.endf, dec-036\_Kr\_099.endf, dec-036\_Kr\_100.endf, dec-037\_Rb\_074.endf, dec-037\_Rb\_085.endf, dec-037\_Rb\_086.endf, dec-037\_Rb\_090.endf, dec-037\_Rb\_090m1.endf, dec-037\_Rb\_091.endf, dec-037\_Rb\_092.endf, dec-037\_Rb\_093.endf, dec-037\_Rb\_094.endf, dec-037\_Rb\_095.endf, dec-037\_Rb\_096.endf, dec-037\_Rb\_097.endf, dec-037\_Rb\_098.endf, dec-037\_Rb\_099.endf, dec-037\_Rb\_100.endf, dec-037\_Rb\_101.endf, dec-037\_Rb\_102.endf, dec-038\_Sr\_084.endf, dec-038\_Sr\_086.endf, dec-038\_Sr\_087.endf, dec-038\_Sr\_088.endf, dec-038\_Sr\_089.endf, dec-038\_Sr\_093.endf, dec-038\_Sr\_095.endf, dec-038\_Sr\_096.endf, dec-038\_Sr\_097.endf, dec-038\_Sr\_098.endf, dec-038\_Sr\_099.endf, dec-038\_Sr\_100.endf, dec-038\_Sr\_101.endf, dec-038\_Sr\_102.endf, dec-038\_Sr\_103.endf, dec-038\_Sr\_104.endf, dec-038\_Sr\_105.endf, dec-039\_Y\_089.endf, dec-039\_Y\_090.endf, dec-039\_Y\_095.endf, dec-039\_Y\_097.endf, dec-039\_Y\_097m1.endf, dec-039\_Y\_098.endf, dec-039\_Y\_098m1.endf, dec-039\_Y\_099.endf, dec-039\_Y\_100.endf, dec-039\_Y\_101.endf, dec-039\_Y\_102.endf, dec-039\_Y\_102m1.endf, dec-039\_Y\_103.endf, dec-039\_Y\_104.endf, dec-039\_Y\_105.endf, dec-039\_Y\_106.endf, dec-039\_Y\_107.endf, dec-039\_Y\_108.endf, dec-040\_Zr\_090.endf, dec-040\_Zr\_091.endf, dec-040\_Zr\_092.endf, dec-040\_Zr\_094.endf, dec-040\_Zr\_098.endf, dec-040\_Zr\_103.endf, dec-040\_Zr\_104.endf, dec-040\_Zr\_105.endf, dec-040\_Zr\_106.endf, dec-040\_Zr\_107.endf, dec-040\_Zr\_108.endf, dec-040\_Zr\_109.endf, dec-040\_Zr\_110.endf, dec-041\_Nb\_087.endf, dec-041\_Nb\_087m1.endf, dec-041\_Nb\_088m1.endf, dec-041\_Nb\_090.endf, dec-041\_Nb\_093.endf, dec-041\_Nb\_094.endf, dec-041\_Nb\_097.endf, dec-041\_Nb\_103.endf, dec-041\_Nb\_104.endf, dec-041\_Nb\_104m1.endf, dec-041\_Nb\_105.endf, dec-041\_Nb\_106.endf, dec-041\_Nb\_107.endf, dec-041\_Nb\_108.endf, dec-041\_Nb\_109.endf, dec-041\_Nb\_110.endf, dec-041\_Nb\_111.endf, dec-041\_Nb\_112.endf, dec-041\_Nb\_113.endf, dec-042\_Mo\_092.endf, dec-042\_Mo\_094.endf, dec-042\_Mo\_095.endf, dec-042\_Mo\_096.endf, dec-042\_Mo\_097.endf, dec-042\_Mo\_098.endf, dec-042\_Mo\_105.endf, dec-042\_Mo\_106.endf, dec-042\_Mo\_107.endf, dec-042\_Mo\_108.endf, dec-042\_Mo\_109.endf, dec-042\_Mo\_111.endf, dec-042\_Mo\_112.endf, dec-042\_Mo\_113.endf, dec-042\_Mo\_114.endf, dec-042\_Mo\_115.endf, dec-043\_Tc\_092.endf, dec-043\_Tc\_099.endf, dec-043\_Tc\_100.endf, dec-043\_Tc\_104.endf, dec-043\_Tc\_105.endf, dec-043\_Tc\_106.endf, dec-043\_Tc\_107.endf, dec-043\_Tc\_108.endf, dec-043\_Tc\_109.endf, dec-043\_Tc\_110.endf, dec-043\_Tc\_111.endf, dec-043\_Tc\_112.endf, dec-043\_Tc\_113.endf, dec-043\_Tc\_114.endf, dec-043\_Tc\_115.endf, dec-043\_Tc\_116.endf, dec-043\_Tc\_117.endf, dec-043\_Tc\_118.endf, dec-044\_Ru\_096.endf, dec-044\_Ru\_098.endf, dec-044\_Ru\_099.endf, dec-044\_Ru\_100.endf, dec-044\_Ru\_101.endf, dec-044\_Ru\_102.endf, dec-044\_Ru\_104.endf, dec-044\_Ru\_111.endf, dec-044\_Ru\_112.endf, dec-044\_Ru\_114.endf, dec-044\_Ru\_115.endf, dec-044\_Ru\_116.endf, dec-044\_Ru\_117.endf, dec-044\_Ru\_118.endf, dec-044\_Ru\_119.endf, dec-044\_Ru\_120.endf, dec-045\_Rh\_103.endf, dec-045\_Rh\_112.endf, dec-045\_Rh\_113.endf, dec-045\_Rh\_114.endf, dec-045\_Rh\_115.endf, dec-045\_Rh\_116.endf, dec-045\_Rh\_117.endf, dec-045\_Rh\_118.endf, dec-045\_Rh\_119.endf, dec-045\_Rh\_120.endf, dec-045\_Rh\_121.endf, dec-045\_Rh\_122.endf, dec-045\_Rh\_123.endf, dec-046\_Pd\_102.endf, dec-046\_Pd\_104.endf, dec-046\_Pd\_105.endf, dec-046\_Pd\_106.endf, dec-046\_Pd\_108.endf,

dec-046\_Pd\_109.endf, dec-046\_Pd\_110.endf, dec-046\_Pd\_115.endf, dec-046\_Pd\_117.endf, dec-046\_Pd\_119.endf, dec-046\_Pd\_120.endf,  
dec-046\_Pd\_121.endf, dec-046\_Pd\_122.endf, dec-046\_Pd\_123.endf, dec-046\_Pd\_124.endf, dec-046\_Pd\_125.endf, dec-046\_Pd\_126.endf,  
dec-047\_Ag\_095m3.endf, dec-047\_Ag\_107.endf, dec-047\_Ag\_109.endf, dec-047\_Ag\_110.endf, dec-047\_Ag\_114.endf, dec-047\_Ag\_117m1.endf,  
dec-047\_Ag\_118.endf, dec-047\_Ag\_118m1.endf, dec-047\_Ag\_120.endf, dec-047\_Ag\_122.endf, dec-047\_Ag\_122m1.endf,  
dec-047\_Ag\_123.endf, dec-047\_Ag\_124.endf, dec-047\_Ag\_125.endf, dec-047\_Ag\_126.endf, dec-047\_Ag\_127.endf, dec-047\_Ag\_128.endf,  
dec-047\_Ag\_129.endf, dec-047\_Ag\_130.endf, dec-048\_Cd\_106.endf, dec-048\_Cd\_108.endf, dec-048\_Cd\_110.endf, dec-048\_Cd\_111.endf,  
dec-048\_Cd\_112.endf, dec-048\_Cd\_114.endf, dec-048\_Cd\_124.endf, dec-048\_Cd\_126.endf, dec-048\_Cd\_127.endf, dec-048\_Cd\_128.endf,  
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dec-049\_In\_116.endf, dec-049\_In\_122m2.endf, dec-049\_In\_127m1.endf, dec-049\_In\_128.endf, dec-049\_In\_128m1.endf,  
dec-049\_In\_129.endf, dec-049\_In\_129m1.endf, dec-049\_In\_130.endf, dec-049\_In\_130m1.endf, dec-049\_In\_130m2.endf,  
dec-049\_In\_131.endf, dec-049\_In\_131m1.endf, dec-049\_In\_131m2.endf, dec-049\_In\_132.endf, dec-049\_In\_133.endf,  
dec-049\_In\_133m1.endf, dec-049\_In\_134.endf, dec-049\_In\_135.endf, dec-050\_Sn\_112.endf, dec-050\_Sn\_114.endf, dec-050\_Sn\_115.endf,  
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dec-050\_Sn\_123m1.endf, dec-050\_Sn\_124.endf, dec-050\_Sn\_131.endf, dec-050\_Sn\_133.endf, dec-050\_Sn\_134.endf, dec-050\_Sn\_135.endf,  
dec-050\_Sn\_136.endf, dec-050\_Sn\_137.endf, dec-051\_Sb\_112.endf, dec-051\_Sb\_121.endf, dec-051\_Sb\_123.endf, dec-051\_Sb\_130m1.endf,  
dec-051\_Sb\_134.endf, dec-051\_Sb\_134m1.endf, dec-051\_Sb\_135.endf, dec-051\_Sb\_136.endf, dec-051\_Sb\_137.endf, dec-051\_Sb\_138.endf,  
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dec-052\_Te\_138.endf, dec-052\_Te\_139.endf, dec-052\_Te\_140.endf, dec-052\_Te\_141.endf, dec-052\_Te\_142.endf, dec-053\_I\_118.endf,  
dec-053\_I\_127.endf, dec-053\_I\_129.endf, dec-053\_I\_136m1.endf, dec-053\_I\_137.endf, dec-053\_I\_138.endf, dec-053\_I\_139.endf,  
dec-053\_I\_140.endf, dec-053\_I\_141.endf, dec-053\_I\_142.endf, dec-053\_I\_143.endf, dec-053\_I\_144.endf, dec-053\_I\_145.endf,  
dec-054\_Xe\_124.endf, dec-054\_Xe\_126.endf, dec-054\_Xe\_128.endf, dec-054\_Xe\_129.endf, dec-054\_Xe\_130.endf, dec-054\_Xe\_131.endf,  
dec-054\_Xe\_132.endf, dec-054\_Xe\_141.endf, dec-054\_Xe\_142.endf, dec-054\_Xe\_143.endf, dec-054\_Xe\_144.endf, dec-054\_Xe\_145.endf,  
dec-054\_Xe\_146.endf, dec-054\_Xe\_147.endf, dec-055\_Cs\_130.endf, dec-055\_Cs\_133.endf, dec-055\_Cs\_137.endf, dec-055\_Cs\_140.endf,  
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dec-056\_Ba\_143.endf, dec-056\_Ba\_144.endf, dec-056\_Ba\_145.endf, dec-056\_Ba\_146.endf, dec-056\_Ba\_147.endf, dec-056\_Ba\_148.endf,  
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dec-057\_La\_142.endf, dec-057\_La\_143.endf, dec-057\_La\_144.endf, dec-057\_La\_145.endf, dec-057\_La\_147.endf, dec-057\_La\_148.endf,  
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dec-057\_La\_155.endf, dec-058\_Ce\_136.endf, dec-058\_Ce\_138.endf, dec-058\_Ce\_140.endf, dec-058\_Ce\_145.endf, dec-058\_Ce\_146.endf,  
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dec-058\_Ce\_153.endf, dec-058\_Ce\_154.endf, dec-058\_Ce\_155.endf, dec-058\_Ce\_156.endf, dec-058\_Ce\_157.endf, dec-059\_Pr\_141.endf,  
dec-059\_Pr\_144.endf, dec-059\_Pr\_146.endf, dec-059\_Pr\_147.endf, dec-059\_Pr\_148.endf, dec-059\_Pr\_148m1.endf, dec-059\_Pr\_149.endf,  
dec-059\_Pr\_151.endf, dec-059\_Pr\_153.endf, dec-059\_Pr\_154.endf, dec-059\_Pr\_155.endf, dec-059\_Pr\_156.endf, dec-059\_Pr\_157.endf,  
dec-059\_Pr\_158.endf, dec-059\_Pr\_159.endf, dec-060\_Nd\_139m1.endf, dec-060\_Nd\_142.endf, dec-060\_Nd\_143.endf, dec-060\_Nd\_144.endf,  
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dec-060\_Nd\_160.endf, dec-060\_Nd\_161.endf, dec-061\_Pm\_134.endf, dec-061\_Pm\_140.endf, dec-061\_Pm\_142.endf, dec-061\_Pm\_145.endf,  
dec-061\_Pm\_152.endf, dec-061\_Pm\_153.endf, dec-061\_Pm\_154.endf, dec-061\_Pm\_155.endf, dec-061\_Pm\_156.endf, dec-061\_Pm\_157.endf,  
dec-061\_Pm\_158.endf, dec-061\_Pm\_159.endf, dec-061\_Pm\_160.endf, dec-061\_Pm\_161.endf, dec-061\_Pm\_162.endf, dec-062\_Sm\_144.endf,  
dec-062\_Sm\_146.endf, dec-062\_Sm\_147.endf, dec-062\_Sm\_148.endf, dec-062\_Sm\_149.endf, dec-062\_Sm\_150.endf, dec-062\_Sm\_152.endf,  
dec-062\_Sm\_154.endf, dec-062\_Sm\_157.endf, dec-062\_Sm\_158.endf, dec-062\_Sm\_159.endf, dec-062\_Sm\_160.endf, dec-062\_Sm\_161.endf,  
dec-062\_Sm\_162.endf, dec-062\_Sm\_163.endf, dec-062\_Sm\_164.endf, dec-062\_Sm\_165.endf, dec-063\_Eu\_142.endf, dec-063\_Eu\_147.endf,  
dec-063\_Eu\_148.endf, dec-063\_Eu\_153.endf, dec-063\_Eu\_154.endf, dec-063\_Eu\_158.endf, dec-063\_Eu\_159.endf, dec-063\_Eu\_161.endf,

dec-063\_Eu\_162.endf, dec-063\_Eu\_163.endf, dec-063\_Eu\_164.endf, dec-063\_Eu\_165.endf, dec-064\_Gd\_141.endf, dec-064\_Gd\_148.endf, dec-064\_Gd\_150.endf, dec-064\_Gd\_151.endf, dec-064\_Gd\_152.endf, dec-064\_Gd\_154.endf, dec-064\_Gd\_155.endf, dec-064\_Gd\_156.endf, dec-064\_Gd\_157.endf, dec-064\_Gd\_158.endf, dec-064\_Gd\_161.endf, dec-064\_Gd\_163.endf, dec-064\_Gd\_164.endf, dec-064\_Gd\_165.endf, dec-065\_Tb\_142.endf, dec-065\_Tb\_148m1.endf, dec-065\_Tb\_149m1.endf, dec-065\_Tb\_151.endf, dec-065\_Tb\_152.endf, dec-065\_Tb\_156m1.endf, dec-065\_Tb\_157.endf, dec-065\_Tb\_159.endf, dec-066\_Dy\_148.endf, dec-066\_Dy\_150.endf, dec-066\_Dy\_151.endf, dec-066\_Dy\_152.endf, dec-066\_Dy\_153.endf, dec-066\_Dy\_154.endf, dec-066\_Dy\_155.endf, dec-066\_Dy\_156.endf, dec-066\_Dy\_158.endf, dec-066\_Dy\_160.endf, dec-066\_Dy\_161.endf, dec-066\_Dy\_162.endf, dec-066\_Dy\_163.endf, dec-066\_Dy\_164.endf, dec-067\_Ho\_150m1.endf, dec-067\_Ho\_153.endf, dec-067\_Ho\_162.endf, dec-067\_Ho\_162m1.endf, dec-067\_Ho\_163.endf, dec-067\_Ho\_165.endf, dec-068\_Er\_145.endf, dec-068\_Er\_149m1.endf, dec-068\_Er\_151m1.endf, dec-068\_Er\_152.endf, dec-068\_Er\_153.endf, dec-068\_Er\_154.endf, dec-068\_Er\_161.endf, dec-068\_Er\_162.endf, dec-068\_Er\_164.endf, dec-068\_Er\_166.endf, dec-068\_Er\_167.endf, dec-068\_Er\_168.endf, dec-068\_Er\_170.endf, dec-069\_Tm\_163.endf, dec-069\_Tm\_165.endf, dec-069\_Tm\_168.endf, dec-069\_Tm\_169.endf, dec-070\_Yb\_164.endf, dec-070\_Yb\_168.endf, dec-070\_Yb\_169m1.endf, dec-070\_Yb\_170.endf, dec-070\_Yb\_171.endf, dec-070\_Yb\_172.endf, dec-070\_Yb\_173.endf, dec-070\_Yb\_174.endf, dec-070\_Yb\_176.endf, dec-071\_Lu\_168m1.endf, dec-071\_Lu\_169.endf, dec-071\_Lu\_172m1.endf, dec-071\_Lu\_175.endf, dec-072\_Hf\_156.endf, dec-072\_Hf\_174.endf, dec-072\_Hf\_176.endf, dec-072\_Hf\_178.endf, dec-072\_Hf\_179.endf, dec-072\_Hf\_180.endf, dec-072\_Hf\_180m1.endf, dec-073-Ta\_157m1.endf, dec-073-Ta\_157m2.endf, dec-073-Ta\_164.endf, dec-073-Ta\_180m1.endf, dec-073-Ta\_181.endf, dec-073-Ta\_182m1.endf, dec-074\_W\_158.endf, dec-074\_W\_166.endf, dec-074\_W\_179m1.endf, dec-075\_Re\_185.endf, dec-076\_Os\_162.endf, dec-076\_Os\_183.endf, dec-076\_Os\_183m1.endf, dec-076\_Os\_187.endf, dec-076\_Os\_188.endf, dec-076\_Os\_189.endf, dec-076\_Os\_190.endf, dec-076\_Os\_192.endf, dec-077\_Ir\_177.endf, dec-077\_Ir\_190m1.endf, dec-077\_Ir\_191.endf, dec-077\_Ir\_193.endf, dec-078\_Pt\_167.endf, dec-078\_Pt\_168.endf, dec-078\_Pt\_184.endf, dec-078\_Pt\_188.endf, dec-078\_Pt\_190.endf, dec-078\_Pt\_192.endf, dec-078\_Pt\_193.endf, dec-078\_Pt\_194.endf, dec-078\_Pt\_195.endf, dec-078\_Pt\_196.endf, dec-078\_Pt\_198.endf, dec-079\_Au\_175.endf, dec-079\_Au\_186.endf, dec-079\_Au\_197.endf, dec-079\_Au\_198.endf, dec-080\_Hg\_173.endf, dec-080\_Hg\_174.endf, dec-080\_Hg\_175.endf, dec-080\_Hg\_186.endf, dec-080\_Hg\_188.endf, dec-080\_Hg\_195m1.endf, dec-080\_Hg\_196.endf, dec-080\_Hg\_198.endf, dec-080\_Hg\_199.endf, dec-080\_Hg\_200.endf, dec-080\_Hg\_201.endf, dec-080\_Hg\_202.endf, dec-080\_Hg\_204.endf, dec-081\_Tl\_179.endf, dec-081\_Tl\_203.endf, dec-081\_Tl\_204.endf, dec-081\_Tl\_205.endf, dec-081\_Tl\_206.endf, dec-082\_Pb\_194.endf, dec-082\_Pb\_202.endf, dec-082\_Pb\_205.endf, dec-082\_Pb\_206.endf, dec-082\_Pb\_207.endf, dec-082\_Pb\_208.endf, dec-082\_Pb\_210.endf, dec-083\_Bi\_188.endf, dec-083\_Bi\_196.endf, dec-083\_Bi\_196m2.endf, dec-083\_Bi\_210.endf, dec-083\_Bi\_210m1.endf, dec-083\_Bi\_211.endf, dec-083\_Bi\_212.endf, dec-083\_Bi\_213.endf, dec-084\_Po\_190.endf, dec-084\_Po\_192.endf, dec-084\_Po\_204.endf, dec-084\_Po\_205.endf, dec-084\_Po\_206.endf, dec-084\_Po\_207.endf, dec-084\_Po\_208.endf, dec-084\_Po\_210.endf, dec-084\_Po\_211.endf, dec-084\_Po\_211m1.endf, dec-084\_Po\_212.endf, dec-084\_Po\_212m1.endf, dec-084\_Po\_213.endf, dec-084\_Po\_214.endf, dec-084\_Po\_215.endf, dec-084\_Po\_216.endf, dec-084\_Po\_218.endf, dec-085\_At\_204.endf, dec-085\_At\_205.endf, dec-085\_At\_207.endf, dec-085\_At\_208.endf, dec-085\_At\_209.endf, dec-085\_At\_211.endf, dec-085\_At\_212.endf, dec-085\_At\_212m1.endf, dec-085\_At\_213.endf, dec-085\_At\_214.endf, dec-085\_At\_215.endf, dec-085\_At\_216.endf, dec-085\_At\_217.endf, dec-085\_At\_218.endf, dec-085\_At\_219.endf, dec-085\_At\_220.endf, dec-086\_Rn\_196.endf, dec-086\_Rn\_197.endf, dec-086\_Rn\_198.endf, dec-086\_Rn\_207.endf, dec-086\_Rn\_210.endf, dec-086\_Rn\_212.endf, dec-086\_Rn\_213.endf, dec-086\_Rn\_215.endf, dec-086\_Rn\_217.endf, dec-086\_Rn\_218.endf, dec-086\_Rn\_219.endf, dec-086\_Rn\_220.endf, dec-086\_Rn\_222.endf, dec-087\_Fr\_201.endf, dec-087\_Fr\_208.endf, dec-087\_Fr\_214.endf, dec-087\_Fr\_214m1.endf, dec-087\_Fr\_215.endf, dec-087\_Fr\_216.endf, dec-087\_Fr\_217.endf, dec-087\_Fr\_219.endf, dec-087\_Fr\_220.endf, dec-087\_Fr\_221.endf, dec-087\_Fr\_223.endf, dec-087\_Fr\_229.endf, dec-088\_Ra\_203.endf, dec-088\_Ra\_214.endf, dec-088\_Ra\_215.endf, dec-088\_Ra\_217.endf, dec-088\_Ra\_220.endf, dec-088\_Ra\_222.endf, dec-088\_Ra\_223.endf, dec-088\_Ra\_224.endf, dec-088\_Ra\_226.endf, dec-089\_Ac\_207.endf, dec-089\_Ac\_208.endf, dec-089\_Ac\_209.endf, dec-089\_Ac\_211.endf, dec-089\_Ac\_213.endf, dec-089\_Ac\_215.endf, dec-089\_Ac\_216.endf, dec-089\_Ac\_216m1.endf, dec-089\_Ac\_217.endf, dec-089\_Ac\_218.endf, dec-089\_Ac\_219.endf, dec-089\_Ac\_220.endf, dec-089\_Ac\_222.endf, dec-089\_Ac\_226.endf, dec-090\_Th\_210.endf, dec-090\_Th\_213.endf, dec-090\_Th\_216.endf, dec-090\_Th\_217.endf, dec-090\_Th\_218.endf, dec-090\_Th\_219.endf, dec-090\_Th\_222.endf, dec-090\_Th\_223.endf, dec-090\_Th\_226.endf, dec-090\_Th\_227.endf, dec-090\_Th\_228.endf, dec-090\_Th\_229.endf, dec-090\_Th\_230.endf, dec-090\_Th\_232.endf, dec-091\_Pa\_217.endf, dec-091\_Pa\_219.endf, dec-091\_Pa\_224.endf, dec-091\_Pa\_228.endf, dec-091\_Pa\_231.endf, dec-091\_Pa\_234m1.endf, dec-092\_U\_219.endf, dec-092\_U\_223.endf, dec-092\_U\_230.endf, dec-092\_U\_232.endf, dec-092\_U\_233.endf, dec-092\_U\_234.endf, dec-092\_U\_235.endf, dec-092\_U\_235m1.endf, dec-092\_U\_236.endf, dec-092\_U\_238.endf, dec-093\_Np\_237.endf, dec-094\_Pu\_236.endf, dec-094\_Pu\_238.endf, dec-094\_Pu\_239.endf, dec-094\_Pu\_240.endf, dec-094\_Pu\_241.endf, dec-094\_Pu\_242.endf,

dec-094\_Pu\_244.endf, dec-095\_Am\_237.endf, dec-095\_Am\_238.endf, dec-095\_Am\_241.endf, dec-095\_Am\_242m1.endf, dec-095\_Am\_243.endf,  
dec-096\_Cm\_240.endf, dec-096\_Cm\_242.endf, dec-096\_Cm\_244.endf, dec-096\_Cm\_245.endf, dec-096\_Cm\_246.endf, dec-096\_Cm\_247.endf,  
dec-096\_Cm\_248.endf, dec-097\_Bk\_249.endf, dec-098\_Cf\_246.endf, dec-098\_Cf\_248.endf, dec-098\_Cf\_249.endf, dec-098\_Cf\_250.endf,  
dec-098\_Cf\_251.endf, dec-098\_Cf\_252.endf, dec-099\_Es\_251.endf, dec-099\_Es\_253.endf, dec-099\_Es\_254.endf, dec-100\_Fm\_252.endf,  
dec-100\_Fm\_254.endf, dec-100\_Fm\_255.endf, dec-100\_Fm\_257.endf,

**fizcon** FIZCON thinks it is an illegal value of nuclear spin (0 .le. SPI .le. 16): dec-047\_Ag\_094m2.endf,  
dec-047\_Ag\_095m3.endf, dec-071\_Lu\_177m2.endf, dec-073-Ta\_176m2.endf, dec-073-Ta\_179m2.endf, dec-084\_Po\_212m1.endf,

**fizcon** Generic error message: dec-029\_Cu\_074.endf, dec-029\_Cu\_081.endf, dec-031\_Ga\_085.endf, dec-033\_As\_084.endf,  
dec-033\_As\_091.endf, dec-033\_As\_092.endf, dec-035\_Br\_097.endf, dec-036\_Kr\_092.endf, dec-036\_Kr\_093.endf, dec-037\_Rb\_092.endf,  
dec-038\_Sr\_096.endf, dec-039\_Y\_099.endf, dec-039\_Y\_102.endf, dec-039\_Y\_102m1.endf, dec-040\_Zr\_110.endf, dec-045\_Rh\_123.endf,  
dec-046\_Pd\_125.endf, dec-046\_Pd\_126.endf, dec-048\_Cd\_127.endf, dec-049\_In\_128.endf, dec-049\_In\_134.endf, dec-050\_Sn\_135.endf,  
dec-050\_Sn\_137.endf, dec-051\_Sb\_134.endf, dec-051\_Sb\_139.endf, dec-052\_Te\_142.endf, dec-053\_I\_145.endf, dec-055-Cs\_151.endf,  
dec-056\_Ba\_149.endf, dec-058\_Ce\_148.endf, dec-058\_Ce\_153.endf, dec-058\_Ce\_154.endf, dec-059\_Pr\_153.endf, dec-059\_Pr\_154.endf,  
dec-059\_Pr\_155.endf, dec-060\_Nd\_159.endf, dec-061\_Pm\_159.endf, dec-062\_Sm\_164.endf, dec-063\_Eu\_161.endf, dec-063\_Eu\_163.endf,

**fizcon** Illegal value of DRIS encountered: dec-067\_Ho\_159.endf,

**fizcon** Illegal value of RTYPE encountered: dec-004\_Be\_006.endf, dec-005\_B\_006.endf, dec-006\_C\_008.endf, dec-006\_C\_009.endf,  
dec-008\_O\_013.endf, dec-010\_Ne\_016.endf, dec-010\_Ne\_017.endf, dec-012\_Mg\_019.endf, dec-012\_Mg\_020.endf, dec-012\_Mg\_021.endf,  
dec-013\_Al\_022.endf, dec-013\_Al\_023.endf, dec-014\_Si\_022.endf, dec-014\_Si\_023.endf, dec-014\_Si\_024.endf, dec-014\_Si\_025.endf,  
dec-015\_P\_027.endf, dec-015\_P\_028.endf, dec-016\_S\_026.endf, dec-016\_S\_027.endf, dec-016\_S\_028.endf, dec-016\_S\_029.endf,  
dec-017\_Cl\_031.endf, dec-017\_Cl\_032.endf, dec-018\_Ar\_031.endf, dec-018\_Ar\_032.endf, dec-018\_Ar\_033.endf, dec-019\_K\_035.endf,  
dec-019\_K\_036.endf, dec-020\_Ca\_035.endf, dec-020\_Ca\_036.endf, dec-020\_Ca\_037.endf, dec-022\_Ti\_038.endf, dec-022\_Ti\_039.endf,  
dec-022\_Ti\_040.endf, dec-022\_Ti\_041.endf, dec-024\_Cr\_043.endf, dec-024\_Cr\_044.endf, dec-024\_Cr\_045.endf, dec-025\_Mn\_046.endf,  
dec-025\_Mn\_047.endf, dec-025\_Mn\_048.endf, dec-026\_Fe\_045.endf, dec-026\_Fe\_046.endf, dec-026\_Fe\_047.endf, dec-026\_Fe\_048.endf,  
dec-026\_Fe\_049.endf, dec-027\_Co\_050.endf, dec-028\_Ni\_048.endf, dec-028\_Ni\_049.endf, dec-028\_Ni\_050.endf, dec-028\_Ni\_052.endf,  
dec-028\_Ni\_053.endf, dec-030\_Zn\_054.endf, dec-030\_Zn\_057.endf, dec-032\_Ge\_058.endf, dec-032\_Ge\_059.endf, dec-032\_Ge\_060.endf,  
dec-032\_Ge\_061.endf, dec-036\_Kr\_070.endf, dec-036\_Kr\_071.endf, dec-038\_Sr\_075.endf, dec-038\_Sr\_076.endf, dec-040\_Zr\_078.endf,  
dec-040\_Zr\_079.endf, dec-040\_Zr\_081.endf, dec-041\_Nb\_081.endf, dec-042\_Mo\_085.endf, dec-044\_Ru\_089.endf, dec-044\_Ru\_093m1.endf,  
dec-046\_Pd\_093.endf, dec-046\_Pd\_095m1.endf, dec-047\_Ag\_094m1.endf, dec-047\_Ag\_094m2.endf, dec-047\_Ag\_095.endf,  
dec-047\_Ag\_096.endf, dec-047\_Ag\_096m1.endf, dec-048\_Cd\_095.endf, dec-048\_Cd\_097.endf, dec-048\_Cd\_099.endf, dec-049\_In\_100.endf,  
dec-050\_Sn\_099.endf, dec-050\_Sn\_100.endf, dec-050\_Sn\_101.endf, dec-050\_Sn\_103.endf, dec-051\_Sb\_104.endf, dec-052\_Te\_108.endf,  
dec-052\_Te\_109.endf, dec-053\_I\_110.endf, dec-054\_Xe\_110.endf, dec-054\_Xe\_113.endf, dec-054\_Xe\_115.endf, dec-054\_Xe\_117.endf,  
dec-055-Cs\_114.endf, dec-055-Cs\_115.endf, dec-055-Cs\_116.endf, dec-055-Cs\_116m1.endf, dec-055-Cs\_118.endf, dec-055-Cs\_118m1.endf,  
dec-055-Cs\_120.endf, dec-056\_Ba\_114.endf, dec-056\_Ba\_115.endf, dec-056\_Ba\_116.endf, dec-056\_Ba\_119.endf, dec-058\_Ce\_121.endf,  
dec-058\_Ce\_122.endf, dec-060\_Nd\_126.endf, dec-061\_Pm\_132.endf, dec-062\_Sm\_135.endf, dec-063\_Eu\_136m1.endf, dec-063\_Eu\_136m2.endf,  
dec-064\_Gd\_135.endf, dec-065\_Tb\_140.endf, dec-066\_Dy\_139.endf, dec-066\_Dy\_142.endf, dec-066\_Dy\_145.endf, dec-066\_Dy\_145m1.endf,  
dec-067\_Ho\_143.endf, dec-067\_Ho\_148m1.endf, dec-068\_Er\_146.endf, dec-068\_Er\_149.endf, dec-068\_Er\_149m1.endf,  
dec-069\_Tm\_149.endf, dec-070\_Yb\_149.endf, dec-071\_Lu\_152.endf, dec-080\_Hg\_179.endf, dec-080\_Hg\_181.endf, dec-080\_Hg\_183.endf,

**fizcon** Isomer flag not set properly: dec-039\_Y\_098m1.endf,

**fizcon** Parity set to illegal value: dec-003\_Li\_010.endf, dec-009\_F\_024.endf, dec-011\_Na\_032.endf, dec-015\_P\_038.endf,  
dec-015\_P\_040.endf, dec-019\_K\_050.endf, dec-019\_K\_051.endf, dec-020\_Ca\_053.endf, dec-021\_Sc\_054.endf, dec-021\_Sc\_056.endf,  
dec-023\_V\_059.endf, dec-027\_Co\_075.endf, dec-028\_Ni\_073.endf, dec-028\_Ni\_075.endf, dec-029\_Cu\_072.endf, dec-029\_Cu\_075.endf,  
dec-030\_Zn\_079.endf, dec-030\_Zn\_081.endf, dec-031\_Ga\_077.endf, dec-031\_Ga\_080.endf, dec-031\_Ga\_084.endf, dec-031\_Ga\_085.endf,

dec-032\_Ge\_087.endf, dec-033\_As\_085.endf, dec-033\_As\_087.endf, dec-034\_Se\_089.endf, dec-034\_Se\_093.endf, dec-035\_Br\_092.endf, dec-035\_Br\_093.endf, dec-035\_Br\_097.endf, dec-037\_Rb\_098m1.endf, dec-039\_Y\_100m1.endf, dec-039\_Y\_101.endf, dec-040\_Zr\_103.endf, dec-041\_Nb\_109.endf, dec-042\_Mo\_107.endf, dec-042\_Mo\_109.endf, dec-043\_Tc\_108.endf, dec-043\_Tc\_109.endf, dec-043\_Tc\_110.endf, dec-043\_Tc\_111.endf, dec-043\_Tc\_117.endf, dec-044\_Ru\_111.endf, dec-045\_Rh\_092.endf, dec-045\_Rh\_112.endf, dec-045\_Rh\_113.endf, dec-045\_Rh\_114.endf, dec-045\_Rh\_115.endf, dec-045\_Rh\_116.endf, dec-045\_Rh\_117.endf, dec-045\_Rh\_119.endf, dec-046\_Pd\_093.endf, dec-046\_Pd\_115.endf, dec-046\_Pd\_117.endf, dec-047\_Ag\_118.endf, dec-047\_Ag\_120.endf, dec-047\_Ag\_122m1.endf, dec-047\_Ag\_125.endf, dec-047\_Ag\_129.endf, dec-048\_Cd\_127.endf, dec-048\_Cd\_129.endf, dec-048\_Cd\_131.endf, dec-049\_In\_100.endf, dec-049\_In\_131.endf, dec-049\_In\_131m1.endf, dec-049\_In\_131m2.endf, dec-049\_In\_133.endf, dec-049\_In\_133m1.endf, dec-050\_Sn\_131.endf, dec-050\_Sn\_135.endf, dec-051\_Sb\_136.endf, dec-051\_Sb\_137.endf, dec-052\_Te\_137.endf, dec-052\_Te\_139.endf, dec-053\_I\_108.endf, dec-053\_I\_114m1.endf, dec-053\_I\_139.endf, dec-053\_I\_140.endf, dec-054\_Xe\_143.endf, dec-054\_Xe\_147.endf, dec-055-Cs\_112.endf, dec-055-Cs\_116m1.endf, dec-055-Cs\_118.endf, dec-055-Cs\_118m1.endf, dec-055-Cs\_144.endf, dec-055-Cs\_146.endf, dec-055-Cs\_147.endf, dec-056\_Ba\_117.endf, dec-057\_La\_117.endf, dec-057\_La\_149.endf, dec-058\_Ce\_123.endf, dec-058\_Ce\_149.endf, dec-058\_Ce\_151.endf, dec-059\_Pr\_126.endf, dec-059\_Pr\_130.endf, dec-059\_Pr\_148m1.endf, dec-059\_Pr\_154.endf, dec-060\_Nd\_125.endf, dec-061\_Pm\_130.endf, dec-061\_Pm\_135.endf, dec-061\_Pm\_152m2.endf, dec-061\_Pm\_155.endf, dec-061\_Pm\_157.endf, dec-062\_Sm\_129.endf, dec-062\_Sm\_135.endf, dec-063\_Eu\_160.endf, dec-064\_Gd\_137.endf, dec-065\_Tb\_154.endf, dec-067\_Ho\_140.endf, dec-067\_Ho\_142.endf, dec-070\_Yb\_149.endf, dec-071\_Lu\_152.endf, dec-071\_Lu\_157.endf, dec-071\_Lu\_182.endf, dec-073-Ta\_160m1.endf, dec-073-Ta\_176m1.endf, dec-073-Ta\_185m1.endf, dec-074\_W\_167.endf, dec-075\_Re\_168.endf, dec-075\_Re\_169m1.endf, dec-075\_Re\_172.endf, dec-075\_Re\_172m1.endf, dec-077\_Ir\_173.endf, dec-077\_Ir\_180.endf, dec-079\_Au\_177.endf, dec-083\_Bi\_194m1.endf, dec-083\_Bi\_198.endf, dec-083\_Bi\_212m1.endf, dec-083\_Bi\_216.endf, dec-085\_At\_202.endf, dec-085\_At\_220.endf, dec-087\_Fr\_206.endf, dec-088\_Ra\_207.endf, dec-089\_Ac\_226.endf, dec-091\_Pa\_217m1.endf, dec-091\_Pa\_239.endf, dec-093\_Np\_231.endf, dec-095\_Am\_242m2.endf, dec-098\_Cf\_245.endf, dec-099\_Es\_248.endf, dec-099\_Es\_256.endf,

**fizcon** RICC must be greater than or equal to RICK + RICL, whatever that means: dec-057\_La\_142.endf, dec-062\_Sm\_159.endf,

**fizcon** Spin should be  $\geq 0.0$ : dec-003\_Li\_010.endf, dec-009\_F\_024.endf, dec-011\_Na\_032.endf, dec-015\_P\_038.endf, dec-015\_P\_040.endf, dec-019\_K\_050.endf, dec-019\_K\_051.endf, dec-020\_Ca\_053.endf, dec-021\_Sc\_054.endf, dec-021\_Sc\_056.endf, dec-023\_V\_059.endf, dec-037\_Rb\_098m1.endf, dec-039\_Y\_100m1.endf, dec-045\_Rh\_092.endf, dec-046\_Pd\_093.endf, dec-049\_In\_100.endf, dec-055-Cs\_112.endf, dec-055-Cs\_116m1.endf, dec-055-Cs\_118m1.endf, dec-057\_La\_117.endf, dec-059\_Pr\_126.endf, dec-059\_Pr\_130.endf, dec-061\_Pm\_130.endf, dec-061\_Pm\_135.endf, dec-062\_Sm\_129.endf, dec-062\_Sm\_135.endf, dec-067\_Ho\_140.endf, dec-067\_Ho\_142.endf, dec-070\_Yb\_149.endf, dec-071\_Lu\_152.endf, dec-071\_Lu\_157.endf, dec-071\_Lu\_182.endf, dec-075\_Re\_168.endf, dec-075\_Re\_169m1.endf, dec-077\_Ir\_173.endf, dec-077\_Ir\_180.endf, dec-079\_Au\_177.endf, dec-083\_Bi\_194m1.endf, dec-083\_Bi\_198.endf, dec-083\_Bi\_212m1.endf, dec-083\_Bi\_216.endf, dec-085\_At\_202.endf, dec-087\_Fr\_206.endf, dec-088\_Ra\_207.endf, dec-091\_Pa\_217m1.endf, dec-095\_Am\_242m2.endf, dec-098\_Cf\_245.endf, dec-099\_Es\_248.endf, dec-099\_Es\_256.endf,

**fizcon** Spin should be integral or half integral: dec-003\_Li\_010.endf, dec-009\_F\_024.endf, dec-011\_Na\_032.endf, dec-015\_P\_038.endf, dec-015\_P\_040.endf, dec-019\_K\_050.endf, dec-019\_K\_051.endf, dec-020\_Ca\_053.endf, dec-021\_Sc\_054.endf, dec-021\_Sc\_056.endf, dec-023\_V\_059.endf, dec-037\_Rb\_098m1.endf, dec-039\_Y\_100m1.endf, dec-045\_Rh\_092.endf, dec-046\_Pd\_093.endf, dec-049\_In\_100.endf, dec-055-Cs\_112.endf, dec-055-Cs\_116m1.endf, dec-055-Cs\_118m1.endf, dec-057\_La\_117.endf, dec-059\_Pr\_126.endf, dec-059\_Pr\_130.endf, dec-061\_Pm\_130.endf, dec-061\_Pm\_135.endf, dec-062\_Sm\_129.endf, dec-062\_Sm\_135.endf, dec-067\_Ho\_140.endf, dec-067\_Ho\_142.endf, dec-070\_Yb\_149.endf, dec-071\_Lu\_152.endf, dec-071\_Lu\_157.endf, dec-071\_Lu\_182.endf, dec-075\_Re\_168.endf, dec-075\_Re\_169m1.endf, dec-077\_Ir\_173.endf, dec-077\_Ir\_180.endf, dec-079\_Au\_177.endf, dec-083\_Bi\_194m1.endf, dec-083\_Bi\_198.endf, dec-083\_Bi\_212m1.endf, dec-083\_Bi\_216.endf, dec-085\_At\_202.endf, dec-087\_Fr\_206.endf, dec-088\_Ra\_207.endf, dec-091\_Pa\_217m1.endf, dec-095\_Am\_242m2.endf, dec-098\_Cf\_245.endf, dec-099\_Es\_248.endf, dec-099\_Es\_256.endf,

**fizcon** This message would be more descriptive if I knew what FT meant: dec-002\_He\_008.endf, dec-005\_B\_012.endf, dec-007\_N\_012.endf, dec-019\_K\_048.endf, dec-023\_V\_047.endf, dec-029\_Cu\_068.endf, dec-029\_Cu\_072.endf, dec-032\_Ge\_069.endf, dec-033\_As\_082.endf, dec-035\_Br\_077.endf, dec-035\_Br\_080.endf, dec-038\_Sr\_080.endf, dec-038\_Sr\_085m1.endf, dec-038\_Sr\_098.endf,

dec-039\_Y\_085m1.endf, dec-041\_Nb\_100.endf, dec-044\_Ru\_094.endf, dec-045\_Rh\_097m1.endf, dec-045\_Rh\_100.endf, dec-045\_Rh\_104.endf, dec-046\_Pd\_099.endf, dec-047\_Ag\_114.endf, dec-047\_Ag\_120m1.endf, dec-048\_Cd\_102.endf, dec-048\_Cd\_107.endf, dec-049\_In\_116.endf, dec-049\_In\_128m1.endf, dec-050\_Sn\_106.endf, dec-050\_Sn\_108.endf, dec-051\_Sb\_118m1.endf, dec-052\_Te\_117.endf, dec-052\_Te\_119m1.endf, dec-053\_I\_128.endf, dec-055\_Cs\_140.endf, dec-056\_Ba\_124.endf, dec-057\_La\_135.endf, dec-058\_Ce\_137.endf, dec-059\_Pr\_128.endf, dec-059\_Pr\_150.endf, dec-060\_Nd\_139m1.endf, dec-064\_Gd\_144.endf, dec-065\_Tb\_142.endf, dec-065\_Tb\_147m1.endf, dec-065\_Tb\_148m1.endf, dec-065\_Tb\_151m1.endf, dec-066\_Dy\_150.endf, dec-067\_Ho\_157.endf, dec-067\_Ho\_159.endf, dec-067\_Ho\_170m1.endf, dec-068\_Er\_163.endf, dec-069\_Tm\_164.endf, dec-070\_Yb\_162.endf, dec-070\_Yb\_165.endf, dec-070\_Yb\_167.endf, dec-075\_Re\_180.endf, dec-078\_Pt\_184.endf, dec-080\_Hg\_190.endf, dec-082\_Pb\_194.endf, dec-082\_Pb\_196.endf, dec-093\_Np\_232.endf,

**fizcon** Uncertainty on discrete radiation intensity (RI) bigger than RI itself, or worse, it is negative!!!

dec-033\_As\_082.endf, dec-035\_Br\_089.endf, dec-037\_Rb\_093.endf, dec-055\_Cs\_142.endf, dec-057\_La\_144.endf,

## WARNING SUMMARY

**checkr** A previous error halted parsing of the current section: dec-003\_Li\_008.endf, dec-003\_Li\_009.endf,

**fizcon** FIZCON apparently has a bug in its calculation of log(FT) values that causes it to have trouble with nearly stable nuclei: dec-000\_Nn\_001.endf, dec-075\_Re\_187.endf, dec-088\_Ra\_228.endf, dec-089\_Ac\_227.endf,

**fizcon** Some spectrum is missing. If you can generate it, it would be good since ENDF requires this even if we can't evaluate it.: dec-001\_H\_001.endf, dec-001\_H\_002.endf, dec-001\_H\_004.endf, dec-001\_H\_005.endf,

dec-001\_H\_006.endf, dec-001\_H\_007.endf, dec-002\_He\_003.endf, dec-002\_He\_004.endf, dec-002\_He\_005.endf, dec-002\_He\_007.endf, dec-002\_He\_009.endf, dec-002\_He\_010.endf, dec-003\_Li\_004.endf, dec-003\_Li\_005.endf, dec-003\_Li\_006.endf, dec-003\_Li\_007.endf, dec-003\_Li\_010.endf, dec-003\_Li\_011.endf, dec-003\_Li\_012.endf, dec-004\_Be\_005.endf, dec-004\_Be\_006.endf, dec-004\_Be\_008.endf, dec-004\_Be\_009.endf, dec-004\_Be\_011.endf, dec-004\_Be\_013.endf, dec-004\_Be\_014.endf, dec-004\_Be\_015.endf, dec-004\_Be\_016.endf, dec-005\_B\_006.endf, dec-005\_B\_007.endf, dec-005\_B\_008.endf, dec-005\_B\_009.endf, dec-005\_B\_010.endf, dec-005\_B\_011.endf, dec-005\_B\_015.endf, dec-005\_B\_016.endf, dec-005\_B\_017.endf, dec-005\_B\_018.endf, dec-005\_B\_019.endf, dec-006\_C\_008.endf, dec-006\_C\_009.endf, dec-006\_C\_012.endf, dec-006\_C\_013.endf, dec-006\_C\_016.endf, dec-006\_C\_017.endf, dec-006\_C\_018.endf, dec-006\_C\_019.endf, dec-006\_C\_020.endf, dec-006\_C\_021.endf, dec-006\_C\_022.endf, dec-007\_N\_010.endf, dec-007\_N\_011.endf, dec-007\_N\_014.endf, dec-007\_N\_015.endf, dec-007\_N\_018.endf, dec-007\_N\_019.endf, dec-007\_N\_020.endf, dec-007\_N\_021.endf, dec-007\_N\_022.endf, dec-007\_N\_023.endf, dec-007\_N\_024.endf, dec-007\_N\_025.endf, dec-008\_O\_012.endf, dec-008\_O\_013.endf, dec-008\_O\_016.endf, dec-008\_O\_017.endf, dec-008\_O\_018.endf, dec-008\_O\_022.endf, dec-008\_O\_023.endf, dec-008\_O\_024.endf, dec-008\_O\_025.endf, dec-008\_O\_026.endf, dec-008\_O\_027.endf, dec-008\_O\_028.endf, dec-009\_F\_014.endf, dec-009\_F\_015.endf, dec-009\_F\_016.endf, dec-009\_F\_019.endf, dec-009\_F\_023.endf, dec-009\_F\_024.endf, dec-009\_F\_025.endf, dec-009\_F\_026.endf, dec-009\_F\_027.endf, dec-009\_F\_028.endf, dec-009\_F\_029.endf, dec-009\_F\_030.endf, dec-009\_F\_031.endf, dec-010\_Ne\_016.endf, dec-010\_Ne\_017.endf, dec-010\_Ne\_020.endf, dec-010\_Ne\_021.endf, dec-010\_Ne\_022.endf, dec-010\_Ne\_027.endf, dec-010\_Ne\_028.endf, dec-010\_Ne\_029.endf, dec-010\_Ne\_030.endf, dec-010\_Ne\_031.endf, dec-010\_Ne\_032.endf, dec-010\_Ne\_033.endf, dec-010\_Ne\_034.endf, dec-011\_Na\_018.endf, dec-011\_Na\_019.endf, dec-011\_Na\_020.endf, dec-011\_Na\_023.endf, dec-011\_Na\_029.endf, dec-011\_Na\_030.endf, dec-011\_Na\_031.endf, dec-011\_Na\_032.endf, dec-011\_Na\_033.endf, dec-011\_Na\_034.endf, dec-011\_Na\_035.endf, dec-011\_Na\_036.endf, dec-011\_Na\_037.endf, dec-012\_Mg\_019.endf, dec-012\_Mg\_020.endf, dec-012\_Mg\_021.endf, dec-012\_Mg\_024.endf, dec-012\_Mg\_025.endf, dec-012\_Mg\_026.endf, dec-012\_Mg\_030.endf, dec-012\_Mg\_031.endf, dec-012\_Mg\_032.endf, dec-012\_Mg\_033.endf, dec-012\_Mg\_034.endf, dec-012\_Mg\_035.endf, dec-012\_Mg\_036.endf, dec-012\_Mg\_037.endf, dec-012\_Mg\_038.endf, dec-012\_Mg\_039.endf, dec-012\_Mg\_040.endf, dec-013\_Al\_021.endf, dec-013\_Al\_022.endf, dec-013\_Al\_023.endf, dec-013\_Al\_024m1.endf, dec-013\_Al\_027.endf, dec-013\_Al\_033.endf, dec-013\_Al\_034.endf, dec-013\_Al\_035.endf, dec-013\_Al\_036.endf, dec-013\_Al\_037.endf, dec-013\_Al\_038.endf, dec-013\_Al\_039.endf, dec-013\_Al\_040.endf, dec-013\_Al\_041.endf, dec-013\_Al\_042.endf, dec-014\_Si\_022.endf, dec-014\_Si\_023.endf, dec-014\_Si\_024.endf, dec-014\_Si\_025.endf, dec-014\_Si\_028.endf, dec-014\_Si\_029.endf, dec-014\_Si\_030.endf, dec-014\_Si\_034.endf, dec-014\_Si\_036.endf, dec-014\_Si\_037.endf, dec-014\_Si\_038.endf, dec-014\_Si\_039.endf, dec-014\_Si\_040.endf, dec-014\_Si\_041.endf, dec-014\_Si\_042.endf, dec-014\_Si\_043.endf, dec-014\_Si\_044.endf, dec-015\_P\_024.endf, dec-015\_P\_025.endf, dec-015\_P\_026.endf, dec-015\_P\_027.endf,

dec-015\_P\_031.endf, dec-015\_P\_037.endf, dec-015\_P\_038.endf, dec-015\_P\_039.endf, dec-015\_P\_040.endf, dec-015\_P\_041.endf, dec-015\_P\_042.endf, dec-015\_P\_043.endf, dec-015\_P\_044.endf, dec-015\_P\_045.endf, dec-015\_P\_046.endf, dec-016\_S\_026.endf, dec-016\_S\_027.endf, dec-016\_S\_028.endf, dec-016\_S\_029.endf, dec-016\_S\_032.endf, dec-016\_S\_033.endf, dec-016\_S\_034.endf, dec-016\_S\_036.endf, dec-016\_S\_041.endf, dec-016\_S\_042.endf, dec-016\_S\_043.endf, dec-016\_S\_044.endf, dec-016\_S\_045.endf, dec-016\_S\_046.endf, dec-016\_S\_048.endf, dec-016\_S\_049.endf, dec-017\_Cl\_028.endf, dec-017\_Cl\_029.endf, dec-017\_Cl\_030.endf, dec-017\_Cl\_031.endf, dec-017\_Cl\_032.endf, dec-017\_Cl\_035.endf, dec-017\_Cl\_037.endf, dec-017\_Cl\_041.endf, dec-017\_Cl\_042.endf, dec-017\_Cl\_043.endf, dec-017\_Cl\_044.endf, dec-017\_Cl\_045.endf, dec-017\_Cl\_046.endf, dec-017\_Cl\_047.endf, dec-017\_Cl\_048.endf, dec-017\_Cl\_049.endf, dec-017\_Cl\_050.endf, dec-017\_Cl\_051.endf, dec-018\_Ar\_030.endf, dec-018\_Ar\_031.endf, dec-018\_Ar\_032.endf, dec-018\_Ar\_033.endf, dec-018\_Ar\_036.endf, dec-018\_Ar\_038.endf, dec-018\_Ar\_040.endf, dec-018\_Ar\_048.endf, dec-018\_Ar\_049.endf, dec-018\_Ar\_050.endf, dec-018\_Ar\_051.endf, dec-018\_Ar\_052.endf, dec-018\_Ar\_053.endf, dec-019\_K\_032.endf, dec-019\_K\_033.endf, dec-019\_K\_034.endf, dec-019\_K\_039.endf, dec-019\_K\_041.endf, dec-019\_K\_049.endf, dec-019\_K\_050.endf, dec-019\_K\_051.endf, dec-019\_K\_052.endf, dec-019\_K\_053.endf, dec-019\_K\_054.endf, dec-019\_K\_055.endf, dec-020\_Ca\_034.endf, dec-020\_Ca\_035.endf, dec-020\_Ca\_036.endf, dec-020\_Ca\_037.endf, dec-020\_Ca\_040.endf, dec-020\_Ca\_042.endf, dec-020\_Ca\_043.endf, dec-020\_Ca\_044.endf, dec-020\_Ca\_046.endf, dec-020\_Ca\_048.endf, dec-020\_Ca\_052.endf, dec-020\_Ca\_053.endf, dec-020\_Ca\_054.endf, dec-020\_Ca\_055.endf, dec-020\_Ca\_056.endf, dec-020\_Ca\_057.endf, dec-021\_Sc\_036.endf, dec-021\_Sc\_037.endf, 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dec-081\_Tl\_193m1.endf, dec-081\_Tl\_203.endf, dec-081\_Tl\_205.endf, dec-081\_Tl\_211.endf, dec-081\_Tl\_212.endf, dec-082\_Pb\_178.endf,  
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dec-084\_Po\_188.endf, dec-084\_Po\_191.endf, dec-084\_Po\_193m1.endf, dec-084\_Po\_194.endf, dec-084\_Po\_195.endf, dec-084\_Po\_195m1.endf,

dec-084\_Po\_196.endf, dec-084\_Po\_197.endf, dec-084\_Po\_197m1.endf, dec-084\_Po\_198.endf, dec-084\_Po\_199.endf, dec-084\_Po\_199m1.endf,  
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dec-085\_At\_197m1.endf, dec-085\_At\_198.endf, dec-085\_At\_198m1.endf, dec-085\_At\_199.endf, dec-085\_At\_200.endf,  
dec-085\_At\_200m1.endf, dec-085\_At\_200m2.endf, dec-085\_At\_201.endf, dec-085\_At\_202.endf, dec-085\_At\_202m1.endf,  
dec-085\_At\_202m2.endf, dec-085\_At\_203.endf, dec-085\_At\_221.endf, dec-085\_At\_222.endf, dec-085\_At\_223.endf, dec-086\_Rn\_195.endf,  
dec-086\_Rn\_195m1.endf, dec-086\_Rn\_197m1.endf, dec-086\_Rn\_199.endf, dec-086\_Rn\_199m1.endf, dec-086\_Rn\_200.endf,  
dec-086\_Rn\_201.endf, dec-086\_Rn\_201m1.endf, dec-086\_Rn\_202.endf, dec-086\_Rn\_203.endf, dec-086\_Rn\_203m1.endf,  
dec-086\_Rn\_204.endf, dec-086\_Rn\_205.endf, dec-086\_Rn\_206.endf, dec-086\_Rn\_208.endf, dec-086\_Rn\_214.endf, dec-086\_Rn\_216.endf,  
dec-086\_Rn\_224.endf, dec-086\_Rn\_226.endf, dec-086\_Rn\_227.endf, dec-086\_Rn\_228.endf, dec-087\_Fr\_199.endf, dec-087\_Fr\_200.endf,  
dec-087\_Fr\_202.endf, dec-087\_Fr\_202m1.endf, dec-087\_Fr\_203.endf, dec-087\_Fr\_204.endf, dec-087\_Fr\_204m1.endf,  
dec-087\_Fr\_204m2.endf, dec-087\_Fr\_205.endf, dec-087\_Fr\_206.endf, dec-087\_Fr\_206m1.endf, dec-087\_Fr\_206m2.endf,  
dec-087\_Fr\_207.endf, dec-087\_Fr\_209.endf, dec-087\_Fr\_210.endf, dec-087\_Fr\_211.endf, dec-087\_Fr\_213.endf, dec-087\_Fr\_225.endf,  
dec-088\_Ra\_202.endf, dec-088\_Ra\_203m1.endf, dec-088\_Ra\_204.endf, dec-088\_Ra\_205.endf, dec-088\_Ra\_205m1.endf,  
dec-088\_Ra\_206.endf, dec-088\_Ra\_207.endf, dec-088\_Ra\_207m1.endf, dec-088\_Ra\_208.endf, dec-088\_Ra\_209.endf, dec-088\_Ra\_210.endf,  
dec-088\_Ra\_211.endf, dec-088\_Ra\_212.endf, dec-088\_Ra\_213.endf, dec-088\_Ra\_216.endf, dec-088\_Ra\_218.endf, dec-088\_Ra\_230.endf,  
dec-088\_Ra\_231.endf, dec-088\_Ra\_232.endf, dec-088\_Ra\_233.endf, dec-088\_Ra\_234.endf, dec-089\_Ac\_206.endf, dec-089\_Ac\_206m1.endf,  
dec-089\_Ac\_208m1.endf, dec-089\_Ac\_210.endf, dec-089\_Ac\_212.endf, dec-089\_Ac\_214.endf, dec-089\_Ac\_222m1.endf,  
dec-089\_Ac\_234.endf, dec-089\_Ac\_235.endf, dec-089\_Ac\_236.endf, dec-090\_Th\_209.endf, dec-090\_Th\_211.endf, dec-090\_Th\_212.endf,  
dec-090\_Th\_214.endf, dec-090\_Th\_220.endf, dec-090\_Th\_225.endf, dec-090\_Th\_237.endf, dec-090\_Th\_238.endf, dec-091\_Pa\_212.endf,  
dec-091\_Pa\_213.endf, dec-091\_Pa\_214.endf, dec-091\_Pa\_215.endf, dec-091\_Pa\_216.endf, dec-091\_Pa\_217m1.endf, dec-091\_Pa\_220.endf,  
dec-091\_Pa\_221.endf, dec-091\_Pa\_222.endf, dec-091\_Pa\_226.endf, dec-091\_Pa\_227.endf, dec-091\_Pa\_235.endf, dec-091\_Pa\_238.endf,  
dec-091\_Pa\_239.endf, dec-091\_Pa\_240.endf, dec-092\_U\_217.endf, dec-092\_U\_218.endf, dec-092\_U\_220.endf, dec-092\_U\_222.endf,  
dec-092\_U\_224.endf, dec-092\_U\_225.endf, dec-092\_U\_228.endf, dec-092\_U\_229.endf, dec-092\_U\_241.endf, dec-093\_Np\_225.endf,  
dec-093\_Np\_227.endf, dec-093\_Np\_228.endf, dec-093\_Np\_229.endf, dec-093\_Np\_230.endf, dec-093\_Np\_231.endf, dec-093\_Np\_242m1.endf,  
dec-093\_Np\_243.endf, dec-093\_Np\_244.endf, dec-094\_Pu\_228.endf, dec-094\_Pu\_229.endf, dec-094\_Pu\_230.endf, dec-094\_Pu\_231.endf,  
dec-094\_Pu\_232.endf, dec-094\_Pu\_233.endf, dec-094\_Pu\_234.endf, dec-094\_Pu\_235.endf, dec-094\_Pu\_247.endf, dec-095\_Am\_231.endf,  
dec-095\_Am\_232.endf, dec-095\_Am\_233.endf, dec-095\_Am\_234.endf, dec-095\_Am\_235.endf, dec-095\_Am\_236.endf, dec-095\_Am\_242m2.endf,  
dec-095\_Am\_248.endf, dec-095\_Am\_249.endf, dec-096\_Cm\_233.endf, dec-096\_Cm\_234.endf, dec-096\_Cm\_235.endf, dec-096\_Cm\_236.endf,  
dec-096\_Cm\_237.endf, dec-096\_Cm\_238.endf, dec-096\_Cm\_239.endf, dec-096\_Cm\_244m1.endf, dec-096\_Cm\_250.endf, dec-097\_Bk\_235.endf,  
dec-097\_Bk\_237.endf, dec-097\_Bk\_238.endf, dec-097\_Bk\_240.endf, dec-097\_Bk\_241.endf, dec-097\_Bk\_242.endf, dec-097\_Bk\_243.endf,  
dec-097\_Bk\_244.endf, dec-097\_Bk\_248.endf, dec-097\_Bk\_253.endf, dec-097\_Bk\_254.endf, dec-098\_Cf\_237.endf, dec-098\_Cf\_238.endf,  
dec-098\_Cf\_239.endf, dec-098\_Cf\_240.endf, dec-098\_Cf\_241.endf, dec-098\_Cf\_242.endf, dec-098\_Cf\_243.endf, dec-098\_Cf\_244.endf,  
dec-098\_Cf\_245.endf, dec-098\_Cf\_254.endf, dec-098\_Cf\_255.endf, dec-098\_Cf\_256.endf, dec-099\_Es\_240.endf, dec-099\_Es\_241.endf,  
dec-099\_Es\_242.endf, dec-099\_Es\_243.endf, dec-099\_Es\_244.endf, dec-099\_Es\_245.endf, dec-099\_Es\_246.endf, dec-099\_Es\_247.endf,  
dec-099\_Es\_247m1.endf, dec-099\_Es\_248.endf, dec-099\_Es\_250.endf, dec-099\_Es\_254m1.endf, dec-099\_Es\_255.endf,  
dec-099\_Es\_256.endf, dec-099\_Es\_256m1.endf, dec-099\_Es\_257.endf, dec-099\_Es\_258.endf, dec-100\_Fm\_242.endf, dec-100\_Fm\_243.endf,  
dec-100\_Fm\_244.endf, dec-100\_Fm\_245.endf, dec-100\_Fm\_246.endf, dec-100\_Fm\_247.endf, dec-100\_Fm\_248.endf, dec-100\_Fm\_249.endf,  
dec-100\_Fm\_250.endf, dec-100\_Fm\_250m1.endf, dec-100\_Fm\_253.endf, dec-100\_Fm\_256.endf, dec-100\_Fm\_258.endf, dec-100\_Fm\_259.endf,  
dec-100\_Fm\_260.endf, dec-101\_Md\_245.endf, dec-101\_Md\_245m1.endf, dec-101\_Md\_246.endf, dec-101\_Md\_247.endf, dec-101\_Md\_247m1.endf,  
dec-101\_Md\_248.endf, dec-101\_Md\_249.endf, dec-101\_Md\_249m1.endf, dec-101\_Md\_250.endf, dec-101\_Md\_251.endf, dec-101\_Md\_252.endf,  
dec-101\_Md\_253.endf, dec-101\_Md\_254.endf, dec-101\_Md\_254m1.endf, dec-101\_Md\_255.endf, dec-101\_Md\_256.endf, dec-101\_Md\_257.endf,  
dec-101\_Md\_258.endf, dec-101\_Md\_258m1.endf, dec-101\_Md\_259.endf, dec-101\_Md\_260.endf, dec-101\_Md\_261.endf, dec-102\_No\_250.endf,  
dec-102\_No\_251.endf, dec-102\_No\_251m1.endf, dec-102\_No\_252.endf, dec-102\_No\_253.endf, dec-102\_No\_254.endf, dec-102\_No\_254m1.endf,  
dec-102\_No\_255.endf, dec-102\_No\_258.endf, dec-102\_No\_259.endf, dec-102\_No\_260.endf, dec-102\_No\_261.endf, dec-102\_No\_262.endf,

dec-103\_Lr\_251.endf, dec-103\_Lr\_252.endf, dec-103\_Lr\_253.endf, dec-103\_Lr\_253m1.endf, dec-103\_Lr\_254.endf, dec-103\_Lr\_255.endf, dec-103\_Lr\_255m1.endf, dec-103\_Lr\_256.endf, dec-103\_Lr\_257.endf, dec-103\_Lr\_258.endf, dec-103\_Lr\_259.endf, dec-103\_Lr\_260.endf, dec-103\_Lr\_261.endf, dec-103\_Lr\_262.endf, dec-103\_Lr\_263.endf, dec-104\_Rf\_253.endf, dec-104\_Rf\_254.endf, dec-104\_Rf\_255.endf, dec-104\_Rf\_256.endf, dec-104\_Rf\_257.endf, dec-104\_Rf\_257m1.endf, dec-104\_Rf\_258.endf, dec-104\_Rf\_259.endf, dec-104\_Rf\_260.endf, dec-104\_Rf\_261.endf, dec-104\_Rf\_261m1.endf, dec-104\_Rf\_262.endf, dec-104\_Rf\_263.endf, dec-104\_Rf\_264.endf, dec-104\_Rf\_265.endf, dec-105\_Db\_255.endf, dec-105\_Db\_256.endf, dec-105\_Db\_257.endf, dec-105\_Db\_257m1.endf, dec-105\_Db\_258.endf, dec-105\_Db\_258m1.endf, dec-105\_Db\_259.endf, dec-105\_Db\_260.endf, dec-105\_Db\_261.endf, dec-105\_Db\_262.endf, dec-105\_Db\_263.endf, dec-105\_Db\_264.endf, dec-105\_Db\_265.endf, dec-106\_Sg\_258.endf, dec-106\_Sg\_259.endf, dec-106\_Sg\_260.endf, dec-106\_Sg\_261.endf, dec-106\_Sg\_262.endf, dec-106\_Sg\_263.endf, dec-106\_Sg\_263m1.endf, dec-106\_Sg\_264.endf, dec-106\_Sg\_265.endf, dec-106\_Sg\_266.endf, dec-106\_Sg\_269.endf, dec-107\_Bh\_260.endf, dec-107\_Bh\_261.endf, dec-107\_Bh\_262.endf, dec-107\_Bh\_262m1.endf, dec-107\_Bh\_263.endf, dec-107\_Bh\_264.endf, dec-107\_Bh\_265.endf, dec-107\_Bh\_266.endf, dec-107\_Bh\_267.endf, dec-107\_Bh\_269.endf, dec-108\_Hs\_263.endf, dec-108\_Hs\_264.endf, dec-108\_Hs\_265.endf, dec-108\_Hs\_265m1.endf, dec-108\_Hs\_266.endf, dec-108\_Hs\_267.endf, dec-108\_Hs\_268.endf, dec-108\_Hs\_269.endf, dec-108\_Hs\_273.endf, dec-109\_Mt\_265.endf, dec-109\_Mt\_266.endf, dec-109\_Mt\_266m1.endf, dec-109\_Mt\_267.endf, dec-109\_Mt\_268.endf, dec-109\_Mt\_269.endf, dec-109\_Mt\_270.endf, dec-109\_Mt\_271.endf, dec-109\_Mt\_273.endf, dec-110\_Ds\_267.endf, dec-110\_Ds\_268.endf, dec-110\_Ds\_269.endf, dec-110\_Ds\_270.endf, dec-110\_Ds\_270m1.endf, dec-110\_Ds\_271.endf, dec-110\_Ds\_271m1.endf, dec-110\_Ds\_272.endf, dec-110\_Ds\_273.endf, dec-110\_Ds\_279m1.endf, dec-111\_Rg\_272.endf,

**fizcon** The decay library is so big that we ran out of MAT numbers, when following the ENDF convention. So, MAT numbers are messed up as well as ZAs one computes from them.:

dec-000\_Nn\_001.endf, dec-001\_H\_001.endf, dec-001\_H\_002.endf, dec-001\_H\_003.endf, dec-001\_H\_004.endf, dec-001\_H\_005.endf, dec-001\_H\_006.endf, dec-001\_H\_007.endf, dec-002\_He\_003.endf, dec-002\_He\_004.endf, dec-002\_He\_005.endf, dec-002\_He\_006.endf, dec-002\_He\_007.endf, dec-002\_He\_008.endf, dec-002\_He\_009.endf, dec-002\_He\_010.endf, dec-003\_Li\_004.endf, dec-003\_Li\_005.endf, dec-003\_Li\_006.endf, dec-003\_Li\_007.endf, dec-003\_Li\_008.endf, dec-003\_Li\_009.endf, dec-003\_Li\_010.endf, dec-003\_Li\_011.endf, dec-003\_Li\_012.endf, dec-004\_Be\_005.endf, dec-004\_Be\_006.endf, dec-004\_Be\_007.endf, dec-004\_Be\_008.endf, dec-004\_Be\_009.endf, dec-004\_Be\_010.endf, dec-004\_Be\_011.endf, dec-004\_Be\_012.endf, dec-004\_Be\_013.endf, dec-004\_Be\_014.endf, dec-004\_Be\_015.endf, dec-004\_Be\_016.endf, dec-005\_B\_006.endf, dec-005\_B\_007.endf, dec-005\_B\_008.endf, dec-005\_B\_009.endf, dec-005\_B\_010.endf, dec-005\_B\_011.endf, dec-005\_B\_012.endf, dec-005\_B\_013.endf, dec-005\_B\_014.endf, dec-005\_B\_015.endf, dec-005\_B\_016.endf, dec-005\_B\_017.endf, dec-005\_B\_018.endf, dec-005\_B\_019.endf, dec-006\_C\_008.endf, dec-006\_C\_009.endf, dec-006\_C\_010.endf, dec-006\_C\_011.endf, dec-006\_C\_012.endf, dec-006\_C\_013.endf, dec-006\_C\_014.endf, dec-006\_C\_015.endf, dec-006\_C\_016.endf, dec-006\_C\_017.endf, dec-006\_C\_018.endf, dec-006\_C\_019.endf, dec-006\_C\_020.endf, dec-006\_C\_021.endf, dec-006\_C\_022.endf, dec-007\_N\_010.endf, dec-007\_N\_011.endf, dec-007\_N\_012.endf, dec-007\_N\_013.endf, dec-007\_N\_014.endf, dec-007\_N\_015.endf, dec-007\_N\_016.endf, dec-007\_N\_017.endf, dec-007\_N\_018.endf, dec-007\_N\_019.endf, dec-007\_N\_020.endf, dec-007\_N\_021.endf, dec-007\_N\_022.endf, dec-007\_N\_023.endf, dec-007\_N\_024.endf, dec-007\_N\_025.endf, dec-008\_O\_012.endf, dec-008\_O\_013.endf, dec-008\_O\_014.endf, dec-008\_O\_015.endf, dec-008\_O\_016.endf, dec-008\_O\_017.endf, dec-008\_O\_018.endf, dec-008\_O\_019.endf, dec-008\_O\_020.endf, dec-008\_O\_021.endf, dec-008\_O\_022.endf, dec-008\_O\_023.endf, dec-008\_O\_024.endf, dec-008\_O\_025.endf, dec-008\_O\_026.endf, dec-008\_O\_027.endf, dec-008\_O\_028.endf, dec-009\_F\_014.endf, dec-010\_Ne\_016.endf, dec-011\_Na\_018.endf, dec-012\_Mg\_019.endf, dec-012\_Mg\_020.endf, dec-013\_Al\_021.endf, dec-013\_Al\_022.endf, dec-014\_Si\_022.endf, dec-014\_Si\_023.endf, dec-014\_Si\_024.endf, dec-015\_P\_024.endf, dec-015\_P\_025.endf, dec-015\_P\_026.endf, dec-016\_S\_026.endf, dec-016\_S\_027.endf, dec-016\_S\_028.endf, dec-017\_Cl\_028.endf, dec-017\_Cl\_029.endf, dec-017\_Cl\_030.endf, dec-018\_Ar\_030.endf, dec-018\_Ar\_031.endf, dec-018\_Ar\_032.endf, dec-019\_K\_032.endf, dec-019\_K\_033.endf, dec-019\_K\_034.endf, dec-020\_Ca\_034.endf, dec-020\_Ca\_035.endf, dec-020\_Ca\_036.endf, dec-021\_Sc\_036.endf, dec-021\_Sc\_037.endf, dec-021\_Sc\_038.endf, dec-022\_Ti\_038.endf, dec-022\_Ti\_039.endf, dec-022\_Ti\_040.endf, dec-023\_V\_040.endf, dec-023\_V\_041.endf, dec-023\_V\_042.endf, dec-024\_Cr\_042.endf, dec-024\_Cr\_043.endf, dec-024\_Cr\_044.endf, dec-025\_Mn\_044.endf, dec-025\_Mn\_045.endf, dec-025\_Mn\_046.endf, dec-026\_Fe\_045.endf, dec-026\_Fe\_046.endf, dec-026\_Fe\_047.endf, dec-026\_Fe\_048.endf, dec-027\_Co\_049.endf, dec-027\_Co\_050.endf, dec-028\_Ni\_048.endf, dec-028\_Ni\_049.endf, dec-028\_Ni\_050.endf, dec-028\_Ni\_051.endf, dec-028\_Ni\_052.endf, dec-029\_Cu\_052.endf, dec-029\_Cu\_053.endf, dec-029\_Cu\_054.endf, dec-030\_Zn\_054.endf, dec-030\_Zn\_055.endf, dec-030\_Zn\_056.endf, dec-031\_Ga\_056.endf, dec-031\_Ga\_057.endf, dec-031\_Ga\_058.endf, dec-032\_Ge\_058.endf, dec-032\_Ge\_059.endf, dec-032\_Ge\_060.endf, dec-033\_As\_060.endf, dec-033\_As\_061.endf, dec-033\_As\_062.endf,

**fizcon** The half-life given in the file really is correct, despite what FIZCON says: dec-023\_V\_050.endf, dec-083\_Bi\_209.endf,

**fizcon** This is an isomer with a very high spin, much too much for FIZCON: dec-072\_Hf\_177.endf, dec-072\_Hf\_177m2.endf, dec-083\_Bi\_204.endf, dec-083\_Bi\_204m2.endf,

**fizcon** Too many discrete spectra for FIZCON to handle: dec-065\_Tb\_152.endf, dec-065\_Tb\_153.endf, dec-066\_Dy\_153.endf, dec-069\_Tm\_163.endf, dec-071\_Lu\_169.endf, dec-071\_Lu\_170.endf, dec-081\_Tl\_200.endf, dec-091\_Pa\_228.endf, dec-091\_Pa\_234.endf, dec-092\_U\_233.endf, dec-094\_Pu\_239.endf, dec-095\_Am\_246m1.endf,

**fizcon** We don't know the energy of the isomer in question, FIZCON should just lighten up and let science progress: dec-025\_Mn\_062m1.endf, dec-026\_Fe\_052m1.endf, dec-026\_Fe\_053m1.endf, dec-027\_Co\_053m1.endf, dec-027\_Co\_068m1.endf, dec-027\_Co\_070m1.endf, dec-029\_Cu\_076m1.endf, dec-030\_Zn\_073m1.endf, dec-039\_Y\_078m1.endf, dec-039\_Y\_097m2.endf, dec-039\_Y\_102m1.endf, dec-041\_Nb\_102m1.endf, dec-043\_Tc\_088m1.endf, dec-044\_Ru\_091m1.endf, dec-045\_Rh\_090m1.endf, dec-045\_Rh\_094m1.endf, dec-045\_Rh\_098m1.endf, dec-045\_Rh\_108m1.endf, dec-045\_Rh\_110m1.endf, dec-047\_Ag\_094m1.endf, dec-047\_Ag\_094m2.endf, dec-047\_Ag\_095m3.endf, dec-047\_Ag\_096m1.endf, dec-047\_Ag\_119m1.endf, dec-049\_In\_098m1.endf, dec-049\_In\_131m2.endf, dec-050\_Sn\_131m1.endf, dec-055-Cs\_118m1.endf, dec-055-Cs\_119m1.endf, dec-055-Cs\_120m1.endf, dec-055-Cs\_144m1.endf, dec-057\_La\_124m1.endf, dec-057\_La\_126m1.endf, dec-057\_La\_128m1.endf, dec-057\_La\_146m1.endf, dec-059\_Pr\_134m1.endf, dec-061\_Pm\_134m1.endf, dec-061\_Pm\_136m1.endf, dec-061\_Pm\_140m1.endf, dec-063\_Eu\_136m1.endf, dec-063\_Eu\_136m2.endf, dec-063\_Eu\_140m1.endf, dec-063\_Eu\_142m1.endf, dec-064\_Gd\_139m1.endf, dec-065\_Tb\_141m1.endf, dec-065\_Tb\_143m1.endf, dec-065\_Tb\_145m1.endf, dec-065\_Tb\_146m1.endf, dec-065\_Tb\_154m1.endf, dec-065\_Tb\_154m2.endf, dec-066\_Dy\_143m1.endf, dec-067\_Ho\_148m1.endf, dec-067\_Ho\_154m1.endf, dec-068\_Er\_147m1.endf, dec-069\_Tm\_152m1.endf, dec-069\_Tm\_154m1.endf, dec-069\_Tm\_162m1.endf, dec-070\_Yb\_151m1.endf, dec-071\_Lu\_154m1.endf, dec-071\_Lu\_156m1.endf, dec-071\_Lu\_160m1.endf, dec-071\_Lu\_162m1.endf, dec-071\_Lu\_162m2.endf, dec-071\_Lu\_167m1.endf, dec-074\_W\_186m1.endf, dec-075\_Re\_167m1.endf, dec-075\_Re\_169m1.endf, dec-075\_Re\_172m1.endf, dec-077\_Ir\_170m1.endf, dec-077\_Ir\_171m1.endf, dec-077\_Ir\_186m1.endf, dec-079\_Au\_175m1.endf, dec-080\_Hg\_187m1.endf, dec-080\_Hg\_189m1.endf, dec-080\_Hg\_191m1.endf, dec-081\_Tl\_179m1.endf, dec-081\_Tl\_190m1.endf, dec-081\_Tl\_191m1.endf, dec-082\_Pb\_181m1.endf, dec-082\_Pb\_185m1.endf, dec-082\_Pb\_191m1.endf, dec-082\_Pb\_193m1.endf, dec-083\_Bi\_184m1.endf, dec-083\_Bi\_186m1.endf, dec-083\_Bi\_188m1.endf, dec-083\_Bi\_190m1.endf, dec-083\_Bi\_192m1.endf, dec-083\_Bi\_194m1.endf, dec-083\_Bi\_194m2.endf, dec-083\_Bi\_198m1.endf, dec-083\_Bi\_200m1.endf, dec-084\_Po\_193m1.endf, dec-085\_At\_194m1.endf, dec-085\_At\_195m1.endf, dec-085\_At\_202m1.endf, dec-086\_Rn\_197m1.endf, dec-086\_Rn\_201m1.endf, dec-087\_Fr\_202m1.endf, dec-087\_Fr\_206m1.endf, dec-088\_Ra\_203m1.endf, dec-088\_Ra\_205m1.endf, dec-089\_Ac\_206m1.endf, dec-089\_Ac\_222m1.endf, dec-093\_Np\_242m1.endf, dec-096\_Cm\_244m1.endf, dec-099\_Es\_247m1.endf, dec-099\_Es\_256m1.endf, dec-100\_Fm\_250m1.endf, dec-101\_Md\_247m1.endf, dec-101\_Md\_249m1.endf, dec-101\_Md\_254m1.endf, dec-101\_Md\_258m1.endf, dec-103\_Lr\_253m1.endf, dec-104\_Rf\_257m1.endf, dec-104\_Rf\_261m1.endf, dec-105\_Db\_257m1.endf, dec-105\_Db\_258m1.endf, dec-106\_Sg\_263m1.endf, dec-107\_Bh\_262m1.endf, dec-109\_Mt\_266m1.endf, dec-110\_Ds\_271m1.endf, dec-110\_Ds\_279m1.endf,

**fizcon** We don't know the parity of a level in the nucleus in question, FIZCON should just lighten up and let science progress: dec-095\_Am\_247.endf,